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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/719,011	11/24/2003	Thomas L. Larry	2239-16	9167
23117 75	590 10/31/2006		EXAMINER	
NIXON & VANDERHYE, PC			· WIMER, MICHAEL C	
901 NORTH G ARLINGTON,	LEBE ROAD, 11TH F	LOOR .	ART UNIT	PAPER NUMBER
ARBINGTON,	V11 22203		2821	
			DATE MAILED: 10/31/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Assistant Communication	10/719,011	LARRY ET AL.			
Office Action Summary	Examiner	Art Unit			
	Michael C. Wimer	2821			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
 Responsive to communication(s) filed on 14 At This action is FINAL. Since this application is in condition for alloware closed in accordance with the practice under Exercise. 	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-23 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration. r election requirement.				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the original transfer of the Park Theorem 11). The oath or declaration is objected to by the Examine 10.	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gothard et al. (6600456).

Regarding Claims 1-23, Gothard et al. show in Fig. 7, for example, an RF antenna array 700 and method therefor, comprising a plurality of antenna elements 701-706 spatially distributed over an array aperture within the confines of the ground plane 710, at least some of the plurality of antenna elements each including at least one active component 711-715 and at least reactively-controlled parasitic component 701-706 plus the circuits 801a-c,810a,805a, etc, as specifically shown in Figures 8A-8C collocated with the active component and at least one controllably variable reactance load 801c, for example in Fig. 8C comprising a varactor connected to at least one parasitic component 701 and an array controller 140, shown in Fig. 7, and connected to at least the variable reactance loads to control a characteristic of the array. The array can be selected in sub-arrays for providing directionality of the beam pattern by varying the phases in the parasitic elements using active components. A skilled artisan would have found it obvious that the switched PIN diode, varactors and

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inductances and capacitances used here with the parasites 701, etc., define the reactively-controlled parasitic component as claimed. Thus, it would have been obvious to the skilled artisan that the variable reactances define the loads claimed here.

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Further regarding Claim 8, the observed metric and controlled components use a feedback control system as specifically pointed out in column 13, fourth paragraph.

Response to Arguments

- 3. Applicant's arguments with respect to claims of record have been considered but are moot in view of the new ground(s) of rejection.
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Wimer whose telephone number is (571) 272-1833. The examiner can normally be reached on M-F.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michael C. Wimer Primary Examiner Art Unit 2821

MCW 10/26/2006